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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/648,531	.08/23/2000	Allen L. Frazier	10001606-1	5682
7590			EXAMINER	
Hewlett-Packard Company Intellectual Property Administration P O Box 272400			BRINICH, STEPHEN M	
			ART UNIT	PAPER NUMBER
Fort Collins, CO 80528-9599			2624	
			DATE MAILED: 03/29/2004	`2

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	09/648,531	FRAZIER ET AL.				
Office Action Summary	Examiner	Art Unit				
	Stephen M Brinich	2624				
The MAILING DATE of this commun. Period for Reply	ication appears on the cover sheet	with the correspondence address				
A SHORTENED STATUTORY PERIOD FOR THE MAILING DATE OF THIS COMMUNI - Extensions of time may be available under the provisions after SIX (6) MONTHS from the mailing date of this comm - If the period for reply specified above is less than thirty (3) - If NO period for reply is specified above, the maximum states a period of the specified above is less than thirty (3) - Failure to reply within the set or extended period for reply Any reply received by the Office later than three months a earned patent term adjustment. See 37 CFR 1.704(b).	CATION. of 37 CFR 1.136(a). In no event, however, may nunication. 0) days, a reply within the statutory minimum of the atutory period will apply and will expire SIX (6) MC will, by statute, cause the application to become	a reply be timely filed nirty (30) days will be considered timely. DNTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) file	ed on .					
,	2b)⊠ This action is non-final.					
3) Since this application is in condition	for allowance except for formal ma	atters, prosecution as to the merits is				
closed in accordance with the practic	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4)⊠ Claim(s) <u>1-22</u> is/are pending in the a 4a) Of the above claim(s) is/ar 5)□ Claim(s) is/are allowed. 6)⊠ Claim(s) <u>1,6-11,16,17 and 21</u> is/are 7)⊠ Claim(s) <u>2-5,12-15,18,19 and 22</u> is/a 8)□ Claim(s) are subject to restrict	re withdrawn from consideration. rejected. are objected to.					
Application Papers						
9)☐ The specification is objected to by the	e Examiner.					
10) The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any object						
Replacement drawing sheet(s) including 11) The oath or declaration is objected to		ng(s) is objected to. See 37 CFR 1.121(d). ed Office Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
2. Certified copies of the priority3. Copies of the certified copies	documents have been received. documents have been received in of the priority documents have bee nal Bureau (PCT Rule 17.2(a)).	Application No en received in this National Stage				
Attachment(s)						
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (P Information Disclosure Statement(s) (PTO-1449 or Paper No(s)/Mail Date <u>2</u>. 	TO-948) Paper N	v Summary (PTO-413) o(s)/Mail Date f Informal Patent Application (PTO-152) 				

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1, 6-7, 10-11, 16-17, & 20-21 are rejected under 35 U.S.C. 102(b) as being anticipated by Towner et al (5929892).

Re claims 1, 6, 10, 16, & 17, Towner et al. discloses

(Figure 14; column 15, line 60 - column 16, line 20) an image

printer in which a size for each printed dot is determined on

the basis of image data pertaining to dot position (in this

case, position relative to a character edge) and dot density

(black within the character outline, white outside the character

outline).

Re claim 7, Towner et al. discloses the use of a laser printer.

Re claims 11 & 21, the determination that a given dot position lies along a character edge inherently requires determination of dot density in the neighborhood of that position (dot positions having "black" density to one side and

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"white" density on another are edge positions; dot positions surrounded by all "black" or all "white" are not edge positions).

Re claim 20, Towner et al. discloses (column 18, lines 45-46) that the disclosed arrangement of dot size control may be implemented in a combination of hardware and software (the latter inherently comprising computer-readable instructions on some type of recording medium).

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 8-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Towner et al. in view of Applicant's admitted Prior Art.

Re claims 8-9, Towner et al. discloses the use of a laser printer rather than an inkjet printer as the means for placing dots representing image data onto a document. The use of inkjet printers and facsimile machines to perform this function is well

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known in the art as described by Applicant (page 1, lines 5-21). The use of the Towner et al. dot size variation scheme in order to produce sharper character printouts in an inkjet printer or a facsimile machine would be an expedient obvious to one of ordinary skill in the art.

Allowable Subject Matter

- 5. Claims 2-5, 12-15, 18-19 & 22 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 6. The following is a statement of reasons for the indication of allowable subject matter:

Re claims 2, 12, 18, & 22 (and dependent claims 3-5, 13-15, & 19), the art of record does not teach or suggest a determination of a dot size based on a count of dots in a local square matrix in conjunction with dot location.

Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Gall and Wallace disclose further examples of image reproduction using dot size modulation.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Stephen

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M. Brinich at 703-305-4390. The examiner can normally be reached on weekdays 7:00-4:30, alternate Fridays off.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Tech Center 2600 Customer Service center at 703-306-0377.

If attempts to contact the examiner and the Customer

If attempts to contact the examiner and the Customer Service Center are unsuccessful, supervisor David Moore can be contacted at 703-308-7452.

Faxes pertaining to this application should be directed to the Tech Center 2600 official fax number, which is 703-872-9306.

Stephen M Brinich

Examiner

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smb March 22, 2004